

Davis County Health Department

Environmental Health Services
Division

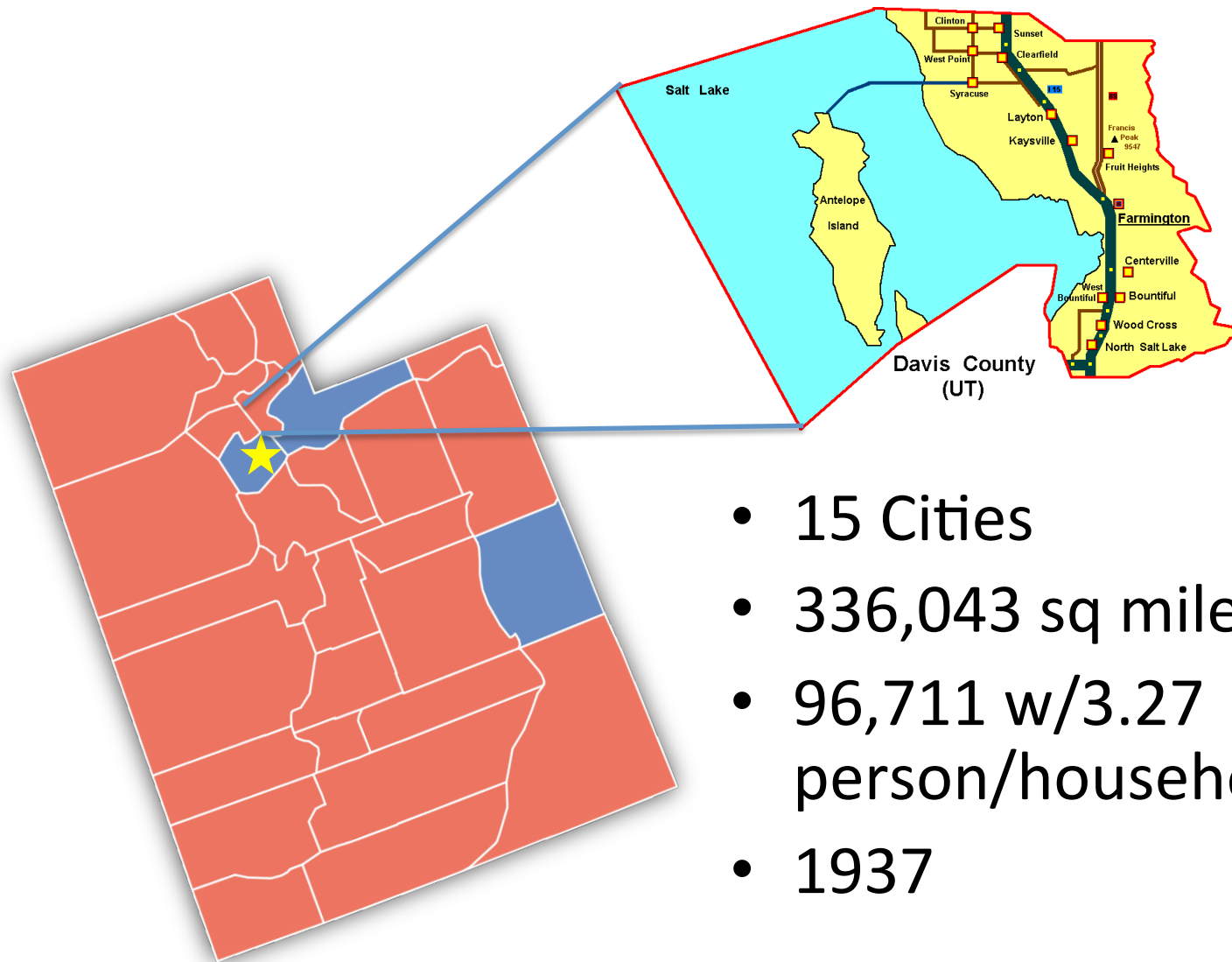
Compiling Data

Kellison Platero, LEHS



- Where is Davis County
- The beginning – Is it a problem?
- Current Data – Possible issues?
- Collecting the data – One then two CRM
- Getting the word out – The objectives
- The Data – Is it comparable?
- Conclusion – Where to go?

Where is Davis County?

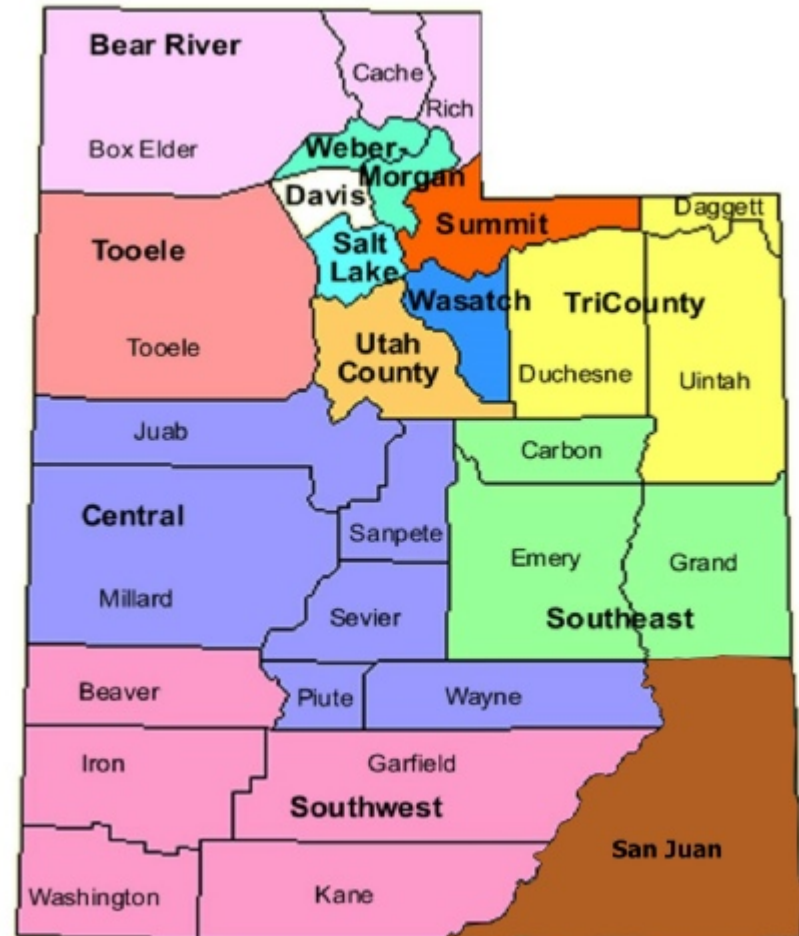


- 15 Cities
- 336,043 sq miles
- 96,711 w/3.27 person/household
- 1937

The Beginning

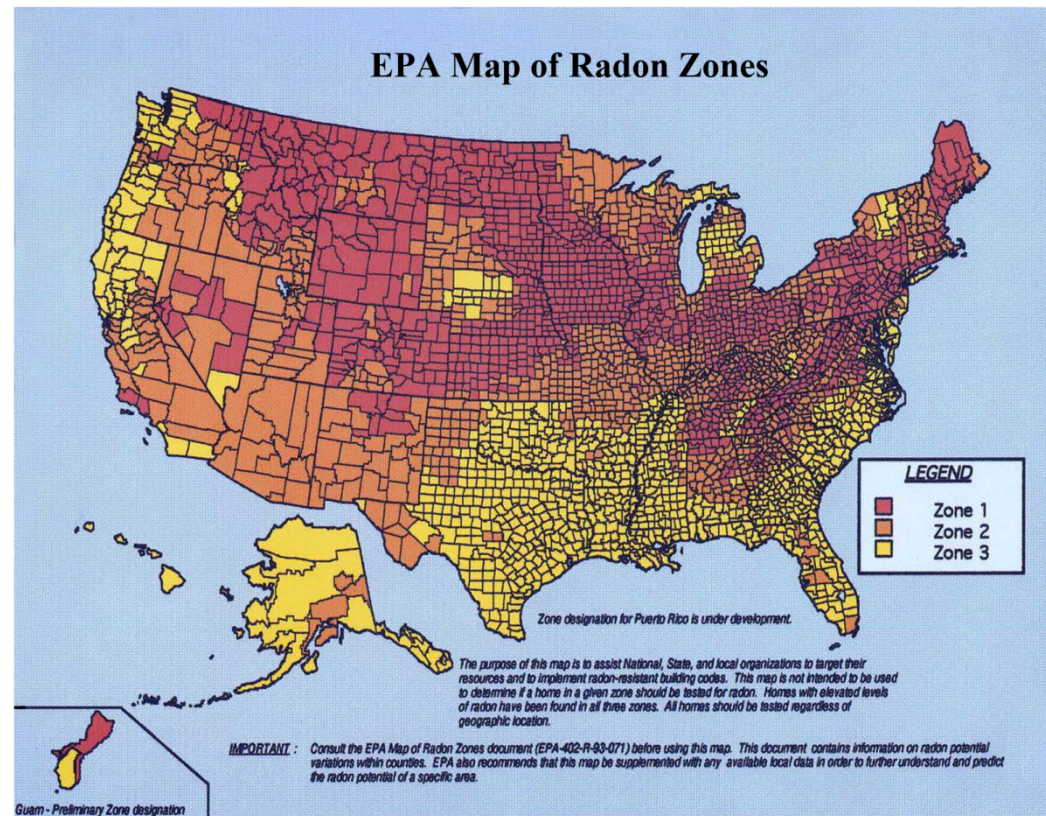
- 2012
- Other Health Dept.
 - Education
 - Poster Contest
 - RRNC

- *Is it a Problem?*



Utah Association of Local Health Departments
<http://www.ualhd.org/index.html>

Current Data



Current Data

- State Radon Data
- Davis County - 3,813
 - Avg. 4.4; High 215
 - 30.9 were ≥ 4 pCi/L
 - 69.1 were <4 pCi/L

STATE TOTALS					
TOTALS	<4 pCi/L	≥ 4 pCi/L	Maximum	Average	Total Tests
Web Table	62.7%	37.3%	664	5.2	44457
Master List					44457

DAVIS					
ZIP CODE	<4 pCi/L	≥ 4 pCi/L	Maximum	Average	Total Tests
84010	57.3%	42.7%	215.0	5.7	967
84011	75.0%	25.0%	9.7	3.4	16
84014	43.0%	57.0%	101.2	7.5	409
84015	91.3%	8.7%	35.9	2.2	379
84016	88.9%	11.1%	6.3	1.7	9
84025	54.6%	45.4%	37.8	5.2	359
84037	81.4%	18.6%	77.2	3.3	467
84040	81.5%	18.5%	24.2	3.1	340
84041	86.5%	13.5%	41.1	2.6	289
84054	80.9%	19.1%	32.5	3.0	199
84056	100.0%	0.0%	2.2	1.3	10
84075	83.2%	16.8%	9.6	2.5	167
84087	62.3%	37.7%	61.7	6.0	199
84089	33.3%	66.7%	7.7	4.6	3
Davis	69.1%	30.9%	215.0	4.4	3813
DUCHESTER					
ZIP CODE	<4 pCi/L	≥ 4 pCi/L	Maximum	Average	Total Tests
84001	100.0%	0.0%	0.7	0.7	1
84007	50.0%	50.0%	5.4	3.1	2
84021	68.4%	31.6%	67.7	9.2	19
84027	33.3%	66.7%	31.1	20.8	3
84031	0.0%	100.0%	6.1	6.1	1
84051	100.0%	0.0%	1.6	1.6	1
84052	50.0%	50.0%	39.5	13.6	6
84053	100.0%	0.0%	0.8	0.8	2
84066	72.1%	27.9%	67.9	5.8	61
84072	66.7%	33.3%	5.3	3.6	3
Duchesne	68.7%	31.3%	67.9	7.0	99
EMERY					
ZIP CODE	<4 pCi/L	≥ 4 pCi/L	Maximum	Average	Total Tests
84513	25.0%	75.0%	5.8	5.1	4
84518	55.6%	44.4%	7.8	3.7	9
84522	100.0%	0.0%	3.7	2.8	2
84523	60.0%	40.0%	5.7	3.0	5
84525	100.0%	0.0%	3.2	1.7	4
84528	66.7%	33.3%	10.4	3.0	12
Emery	63.9%	36.1%	10.4	3.3	36
GARFIELD					
ZIP CODE	<4 pCi/L	≥ 4 pCi/L	Maximum	Average	Total Tests
84712	0.0%	100.0%	7.8	7.8	1
84716	100.0%	0.0%	3.9	2.7	3
84718	100.0%	0.0%	0.8	0.8	1
84726	50.0%	50.0%	13.8	6.3	4
84735	50.0%	50.0%	20.5	7.7	4
84759	47.6%	52.4%	32.1	7.1	21
Garfield	52.9%	47.1%	32.1	6.5	34
GRAND					
ZIP CODE	<4 pCi/L	≥ 4 pCi/L	Maximum	Average	Total Tests
84532	86.7%	13.3%	44.5	2.7	113
Grand	86.7%	13.3%	44.5	2.7	113

Possible Issues?

- DIY Radon Test Kits
 - Closed Home Occupancy
 - Location
 - Duration
 - Duplicates
 - Mitigation System Installed?
- 21,000

Collecting the Data

- Free Radon Testing
- Continuous Radon Monitor
- Department Staff
- EPA Radon protocols



Getting the Word Out

- 2 Classes were held at local high schools – Northridge, Woods Cross, Bountiful High
- PSA radon at Legacy Event Center – Barrel Racing
- PSA on website daviscountyutah.gov/health
- PSA on outside marquee



The Data

Zip Code	Average	High	Low	<4 pCi/L %	≥4 pCi/L %	n
84010	5.3	45.2	0.5	57.8%	42.2%	128
84014	4.7	12.5	0.1	56.5%	43.5%	23
84015	1.4	3.5	0.3	100.0%	0.0%	33
84025	4.6	16	1	59.2%	40.8%	49
84037	3.4	16.1	0.3	67.9%	32.1%	53
84040	2.1	7.1	0.5	84.8%	15.2%	33
84041	1.8	3.6	0.6	100.0%	0.0%	7
84054	3.4	25.4	0.3	82.1%	17.9%	28
84075	2.1	3.4	0.5	100.0%	0.0%	12
84087	7.8	36.2	0.9	54.5%	45.5%	11
Davis	4.0	45.2	0.1	69.2%	30.8%	377

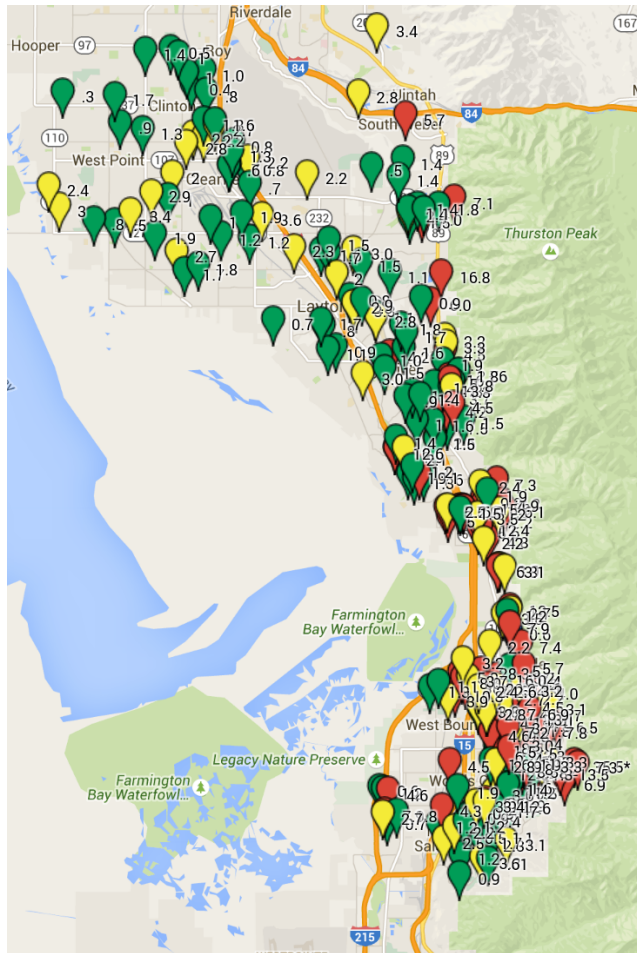
84089	33.3%	66.7%	7.7	4.6	3
Davis	69.1%	30.9%	215.0	4.4	3813
DUCHESE					

The Data

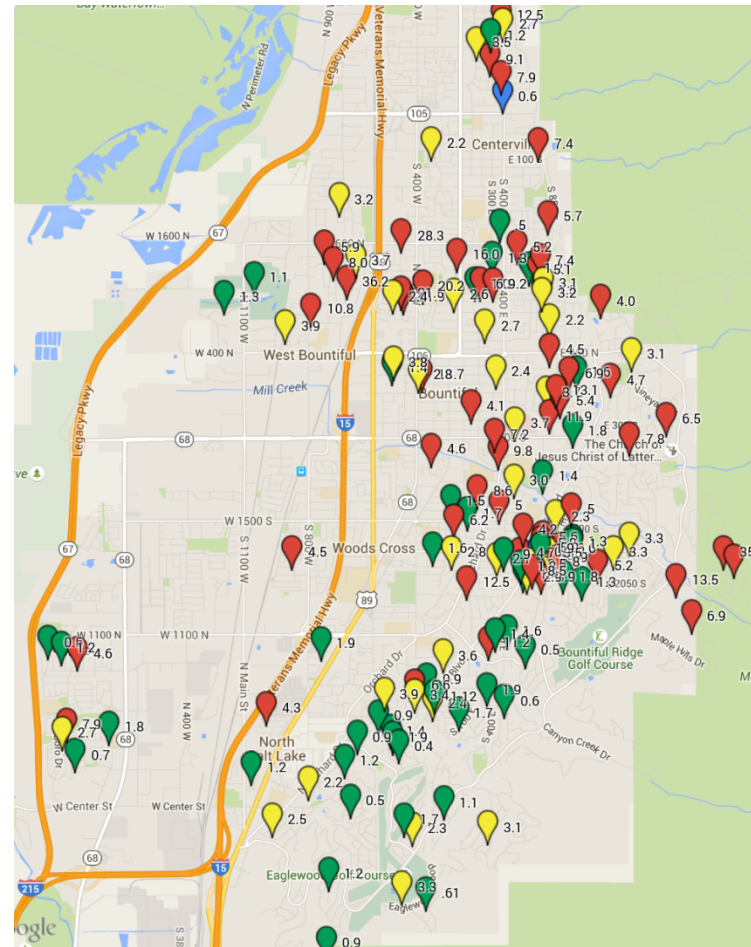
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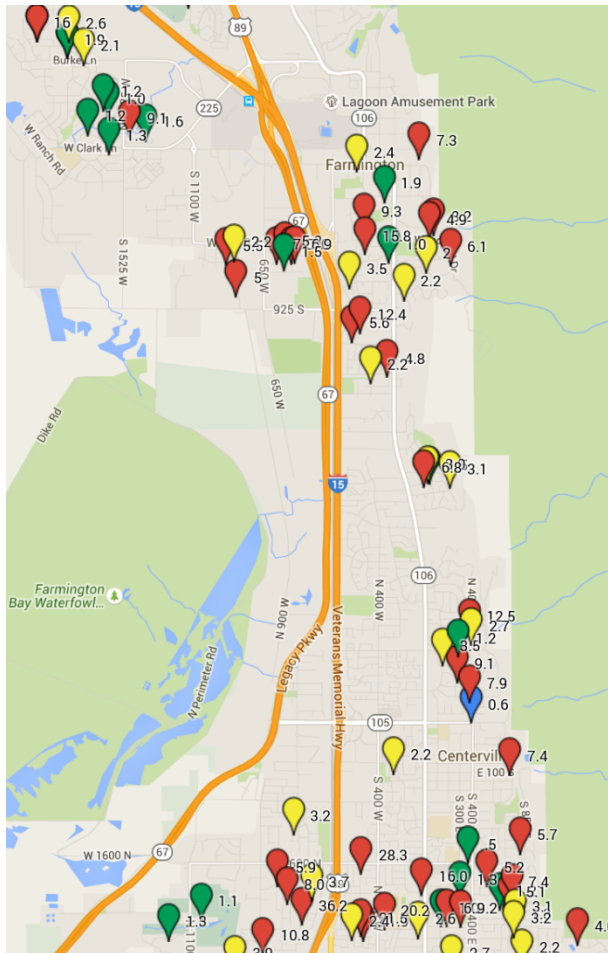


Davis County

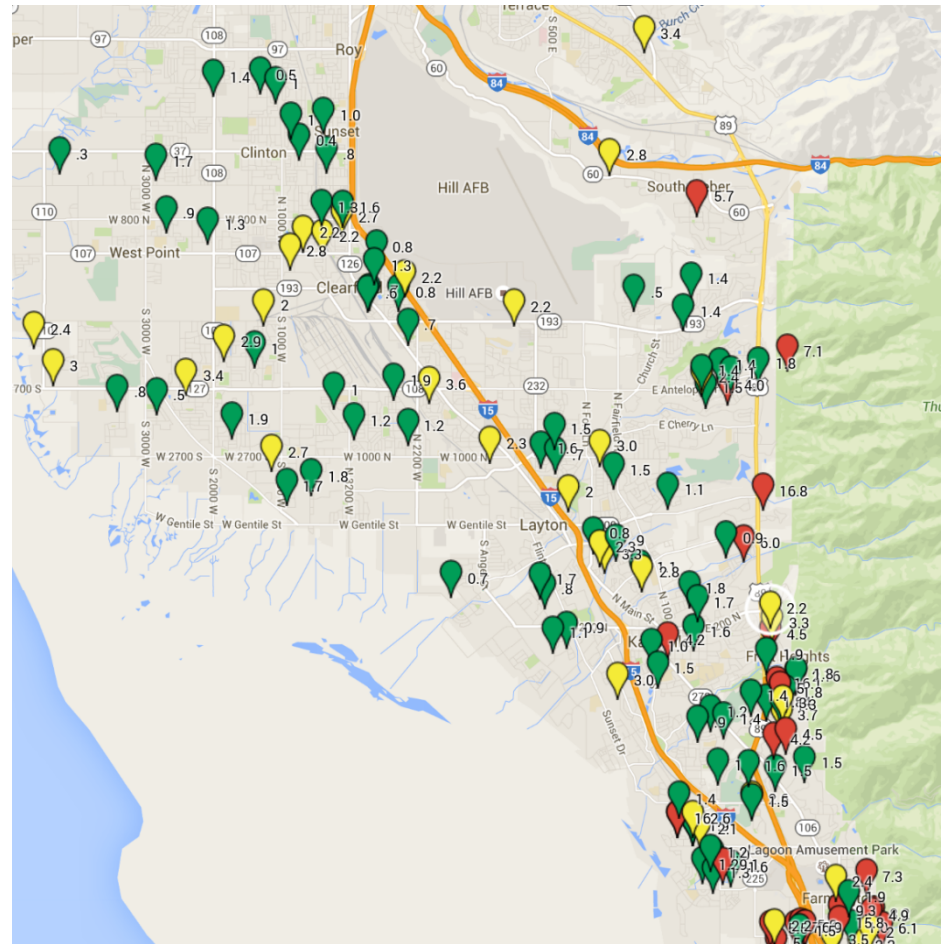


Southern Davis County

The Data



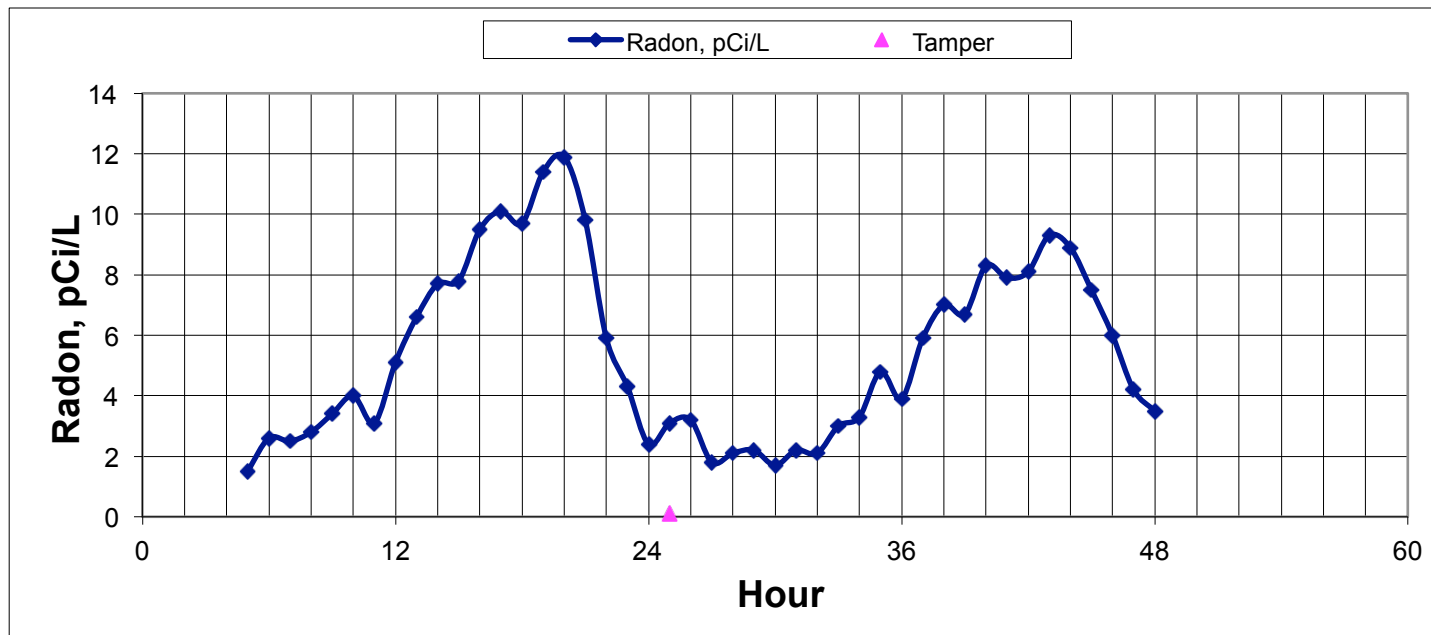
Central Davis County



Northern Davis County

The Data

- Davis School District Radon Testing
 - 26 elementary school tested
 - 3 schools had averages above 4 pCi/L



Conclusion – Where to go from here?

- EPA zone 2
- State's data
- 30.8% of homes in Davis county are elevated
 - $0.31 \times 96,711 = 29,980$ household in Davis County have elevated levels.
 - $3.27 \times 29980 = 98,036$ people live with elevated levels
- PSE and RRNC
- Encourage radon testing
- Yes, radon is a problem

Find out. Fix it. Follow up

Questions?

Rock n Roll

1. AC/DC
2. Iron Maiden
3. Guns n Roses
4. Ozzy Osbourne
5. Lynard Skynard

Big Hair

1. Bon Jovi
2. Van Halen
3. Poison
4. Def Leppard
5. Aerosmith